



## BIOACTIVE PEPTIDES

### ADRENOCORTICOTROPIC HORMONE AND FRAGMENTS

The endocrine functions of the adrenal cortex are regulated by an anterior pituitary hormone, adrenocorticotrophic hormone (ACTH). ACTH and its fragments affect motivation, learning and behavior.

Ref.: Gispen, W.H. and DeWied, D., Peptides, Structure and Function, Proceedings of the Eighth American Peptide Symposium, Mundy, V.J. and Rich, D.H., eds., 399 (1983).

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#### ADRENOCORTICOTROPIC HORMONE (ACTH 1-39; Corticotropin A)

A 6303 From Porcine Pituitary 100 I.U. 48000  
Approx. 90 I.U. per mg by 250 I.U. 91000  
RIA (our synthetic porcine 1,000 I.U. 238000  
ACTH as standard). 5,000 I.U. 836000  
Off-white to tan powder.  
Bioassay not run by Sigma.  
(7061-27-2)

A 0423 Human 100 µg 274000  
(Ser-Tyr-Ser-Met-Glu-His-Phe- 500 µg 901000  
Arg-Trp-Gly-Lys-Pro-Val-Gly- 1 mg 1547000  
Lys-Lys-Arg-Pro-Val-Gly-  
Val-Tyr-Pro-Asn-Gly-Ala-Glu-Ser-Ala-Glu-  
Ala-Phe-Pro-Leu-Glu-Phe)  
Minimum 97% (HPLC)  
Ref.: 1. Sieber, P., et al., Helv. Chim. Acta, 55,  
1243 (1972).  
2. Yamashiro, D. and Li, C. J. Amer. Chem. Soc.,  
95, 1310 (1973).  
(1227-41-3) FW 4541.1

A 7075 Rat 100 µg 279000  
(Ser-Tyr-Ser-Met-Glu-His-Phe- 500 µg 703000  
Arg-Trp-Gly-Lys-Pro-Val-Gly- 1 mg 1168000  
Lys-Lys-Arg-Pro-Val-Gly-  
Val-Tyr-Pro-Asn-Val-Ala-Glu-Ser-Ala-Glu-  
Ala-Phe-Pro-Leu-Glu-Phe)  
Minimum 95% (HPLC)  
(77465-10-2) FW 4582.2

#### ADRENOCORTICOTROPIC HORMONE FRAGMENTS Human

A 2782 Fragment 1-4 500 µg 38000  
(Ser-Tyr-Ser-Met) 1 mg 61000  
Minimum 97% (HPLC)  
(114055-04-4) C<sub>6</sub>H<sub>12</sub>N<sub>4</sub>O<sub>5</sub>S  
FW 486.5

A 1709 Fragment 1-10 1 mg 66000  
(Ser-Tyr-Ser-Met-Glu-His-Phe-Arg- 5 mg 242000  
Trp-Gly)  
Minimum 97% (HPLC)  
(2771-05-1) FW 1289.4

A 5555 Fragment 1-13 100 µg 52000  
(Ser-Tyr-Ser-Met-Glu-His-Phe- 500 µg 172000  
Arg-Trp-Gly-Lys-Pro-Val) 1 mg 285000  
Minimum 97% (HPLC)  
(22006-64-0) FW 1623.8

A 6804 Fragment 1-14 100 µg 52000  
(Ser-Tyr-Ser-Met-Glu-His-Phe- 500 µg 172000  
Arg-Trp-Gly-Lys-Pro-Val-Gly) 1 mg 285000  
Minimum 95% (HPLC)  
(2771-05-1) FW 1680.9

A 8923 Fragment 1-16 100 µg 38000  
(Ser-Tyr-Ser-Met-Glu-His-Phe- 500 µg 125000  
Arg-Trp-Gly-Lys-Pro-Val-Gly-Lys- 1 mg 206000  
Lys)  
Minimum 97% (HPLC)  
(1576-42-1) FW 1837.2

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#### (Continuation of) ADRENOCORTICOTROPIC HORMONE FRAGMENTS

A 2407 Fragment 1-17 100 µg 38000  
(Ser-Tyr-Ser-Met-Glu-His-Phe- 500 µg 118000  
Arg-Trp-Gly-Lys-Pro-Val-Gly-Lys- 1 mg 197000  
Lys-Arg)  
Minimum 97% (HPLC)  
(7264-47-9) FW 2093.4

A 0298 Fragment 1-24 250 µg 129000  
(Ser-Tyr-Ser-Met-Glu-His-Phe- 500 µg 213000  
Arg-Trp-Gly-Lys-Pro-Val-Gly- 1 mg 95500  
Lys-Lys-Arg-Pro-Val-Gly-Val-Tyr-Pro)  
Minimum 97% (HPLC)  
Peptide content: Approx. 70%  
Similar to A 8280, but produced by Sigma.  
Ref.: 1. Jacquet, Y.F., Science, 201, 1032 (1978).  
2. Kappeler, H. and Schwyzer, R., Helv. Chim.  
Acta, 44, 1136 (1961).  
(15960-16-0) FW 2933.5

A 8280 Fragment 1-24 250 µg 141000  
(Ser-Tyr-Ser-Met-Glu-His-Phe- 500 µg 243000  
Arg-Trp-Gly-Lys-Pro-Val-Gly-  
Lys-Lys-Arg-Pro-Val-Gly-Val-Tyr-Pro)  
Minimum 90% (HPLC)  
(16960-16-0) FW 2933.5

A 6552 [Phe<sup>1</sup>, N<sup>19</sup>]-Fragment 1-24 250 µg 150000  
(Ser-Phe-Ser-Met-Glu-His-Phe- 500 µg 253000  
Arg-Trp-Gly-Lys-Pro-Val-Gly-  
Lys-Lys-Arg-Pro-Val-Gly-Val-Tyr-Pro)  
Minimum 97% (HPLC)  
Peptide content: Approx. 70%  
(97773-00-7) FW 2899.4

A 0526 (Met(O<sup>2</sup>)-Lys<sup>1</sup>-Phe<sup>2</sup>)-Fragment 4-9 500 µg 35000  
4-9 (Met(O<sup>2</sup>)-Glu-His-Phe-Lys-Phe) 1 mg 57000  
Minimum 95% (HPLC) 5 mg 210000  
Ref.: Van Riessen, V.N. and Ruster, M., Arzneim.-  
Forsch., 28, 1294 (1978).  
(50913-03-4) C<sub>24</sub>H<sub>36</sub>N<sub>10</sub>O<sub>15</sub>S FW 854

A 7181 Tyr-Fragment 4-9 500 µg 61000  
(Tyr-Met-Glu-His-Phe-Arg-Trp) 1 mg 102000  
Minimum 97% (HPLC) 5 mg 338000  
(729813-57-4) FW 1088.2

A 0401 Fragment 4-10 500 µg 45000  
(Met-Glu-His-Phe-Arg-Trp-Gly) 1 mg 74000  
Minimum 97% (HPLC) 5 mg 261000  
Ref.: 1. Wollhuiss, O.L. and  
DeWied, D., Pharmacol. Biochem. Behav., 4, 273  
(1978).

2. Groven, H.M. and DeWied, D., Eur. J.  
Pharmacol., 2, 14 (1967).  
(4037-01-2) C<sub>24</sub>H<sub>36</sub>N<sub>10</sub>O<sub>15</sub>S FW 962.1

A 9054 Tyr-Fragment 4-10 1 mg 128000  
(Tyr-Met-Glu-His-Phe-Arg-Trp-Gly) 5 mg 473000  
Minimum 90% (HPLC)  
(15137-17-9) FW 1125.3

A 7056 Fragment 4-11 500 µg 79000  
(Met-Glu-His-Phe-Arg-Trp-Gly- 1 mg 130000  
Lys) 5 mg 483000  
Minimum 97% (HPLC)  
(6782-41-3) FW 1090.3

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1070

Shipping information - page 5.

How to use price list - page 7.

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